

### ABSTRACT OF THE DISCLOSURE

5            Novel 4-1BB ligand (4-1BB-L) polypeptides and a human cell surface receptor  
designated 4-1BB that binds 4-1BB-L are provided. Isolated 4-1BB-L-encoding and  
human 4-1BB-encoding DNA sequences, recombinant expression vectors comprising the  
isolated DNA sequences, and host cells transformed with the recombinant expression  
vectors are disclosed, along with methods for producing the novel polypeptides by  
10    cultivating such transformed host cells. Soluble forms of the 4-1BB-L or 4-1BB  
polypeptides are derived from the extracellular domains thereof.